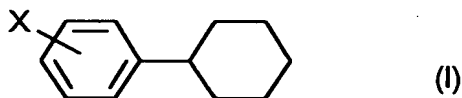


WHAT IS CLAIMED IS:

1. A lithium secondary battery comprising a positive electrode, a negative electrode of artificial graphite or natural graphite and a nonaqueous electrolytic solution having an electrolyte dissolved in a nonaqueous solvent, wherein 0.1 to 20 wt.% of a cyclohexylbenzene having a halogen atom bonded to a benzene ring thereof is contained in the nonaqueous electrolytic solution.

2. The lithium secondary battery of claim 1, wherein the cyclohexylbenzene having a halogen atom bonded to a benzene ring thereof is a compound having the following formula (I):



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wherein X is a halogen atom, and the halogen atom is attached to an optional position.

3. The lithium secondary battery of claim 2, wherein the cyclohexylbenzene having a halogen atom bonded to a benzene ring thereof is 1-halogeno-4-cyclohexylbenzene.

4. The lithium secondary battery of claim 1, wherein the cyclohexylbenzene having a halogen atom bonded to a benzene ring thereof is contained in the nonaqueous electrolytic solution in an amount of 0.5 to 5 wt.%.

5. The lithium secondary battery of claim 1, wherein the nonaqueous solvent of the nonaqueous electrolytic solution comprises a combination of a cyclic car-

bonate and a linear carbonate, a combination of a cyclic carbonate and lactone, or a combination of plural cyclic carbonates and linear carbonates.

5           6.   The lithium secondary battery of claim 1, which contains vinylene carbonate.

10           7.   The lithium secondary battery of claim 1, wherein the artificial graphite or natural graphite has a graphite crystal structure having a lattice distance in terms of  $d_{002}$  of lattice surface (002) in the range of 0.335 to 0.340 nm.